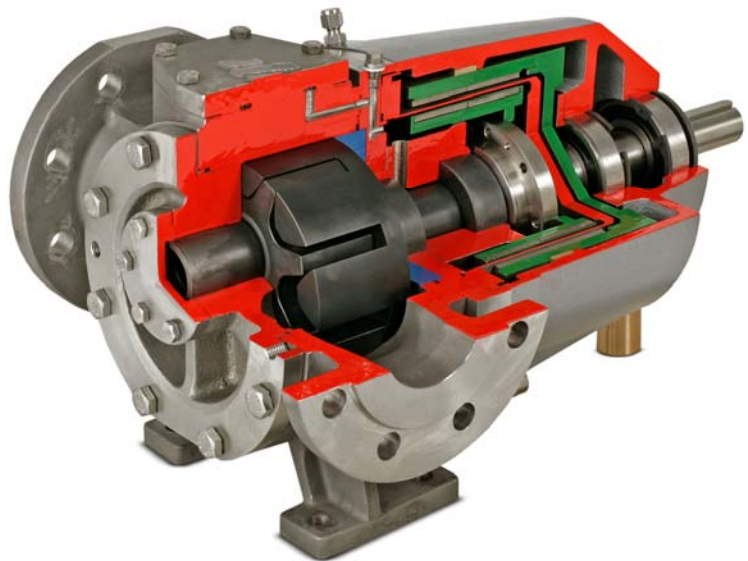


MAG-DRIVE GEAR PUMPS FOR PEACE OF MIND PUMPING

Reliability and safety are of paramount importance for many pumping applications, especially those occurring in the chemical and process industries which require the safe transfer of corrosive, toxic or expensive liquids. To meet these demands SPX Process Equipment has added a new model to their **Johnson Pump** product line; the seal-less, leak-proof TopGear MAG.

As the name suggests, TopGear MAG internal gear pumps are magnetically driven so they are seal-less by design and are specifically developed for handling low or high viscosity hazardous or toxic liquids, or liquids which are problematic to seal-off. TopGear MAG pumps provide a maximum capacity of 80m³/h, a maximum differential pressure of 16 bar and can operate on liquids with a maximum temperature of 260°C.



Total containment of the liquid inside the pump is achieved using a hermetically sealed can, which effectively isolates the liquid from the surrounding environment. This eliminates the need for shaft seals and the associated wear and leakage that would normally occur. The MAG drive ensures a clean, safe and leak-free operation, which is important for safe and reliable pumping of aggressive liquids.

An important feature of the pump is the large gap between the inner magnet and can which minimizes friction losses when pumping high viscosity media thereby ensuring low heat generation and long-life operation.

TopGear MAG is equipped with a unique new development, an integrated cooling pump that provides a forced recirculation of the pumped liquid through the bearings and magnet coupling. Due to the

design of the integrated circulation pump the forced recirculation is independent of operation pressure and liquid viscosity.

TopGear MAG pumps are available with silicone carbide bearings and these materials are extremely wear resistant and enable efficient handling of low viscosity media. Also, a built-in safety system is incorporated into the pump which prevents the magnetic rotors from running against the can in case of bearing failure.

The can, being made of chemically resistant Hastelloy C4, reduces eddy current losses to a minimum while also increasing pumping efficiency and minimizing the pump's operating temperature. Simple inspection and maintenance is also enabled by the easily disassembled back and front pull out design.

The TopGear MAG, which is designed for complete inter-changeability with the existing TopGear range of pumps (GM and H models), is also available with options such as, heating and cooling jackets which safeguard the pump in start-up and shut-down process, while steam or thermal oil options are also available.

Typical applications include pumping a very wide range of hazardous and toxic liquids such as; Phenol, Solvents, Isocyanates, Sodium Hydroxide, Epoxy Resin, Fuel Additives, Caustic Solutions, Oils, Bitumen and Alcohols.

Contact your local representative for further information <http://www.johnson-pump.com/>

SPX has an innovative product portfolio, containing many environmentally friendly products, such as cooling systems for all types of power plants throughout the world; custom engineered pumps, valves and mixers that assist a variety of flow processes including oil and gas exploration, distribution and refinement; handheld diagnostic tools that aid in vehicle maintenance and repair, and power transformers that regulate voltage for electrical transmission and distribution by utility companies. Read more on <http://www.spx.com/>

